

FIG. 1A

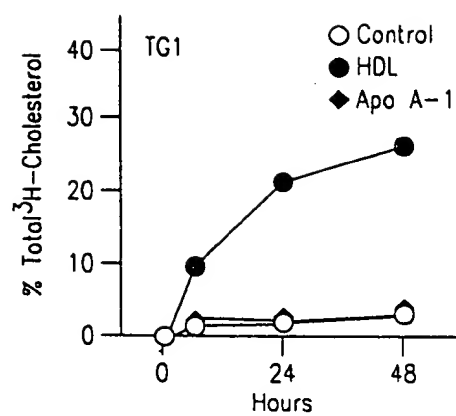


FIG. 1B

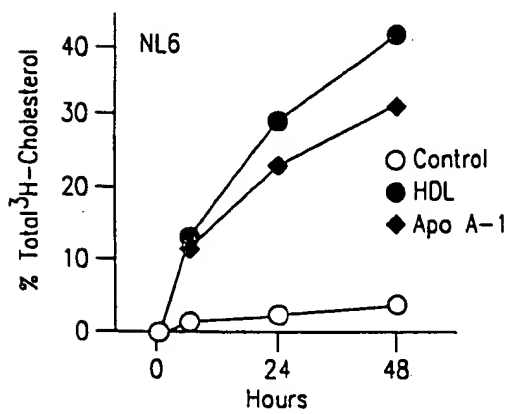


FIG. 1C

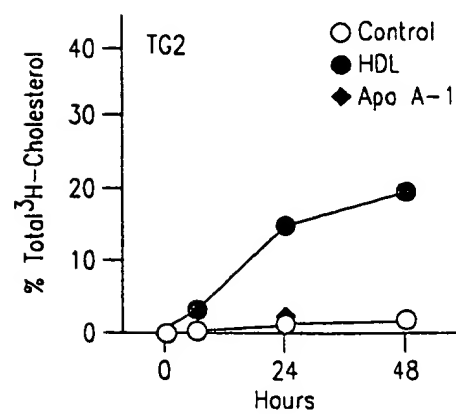


FIG. 1D

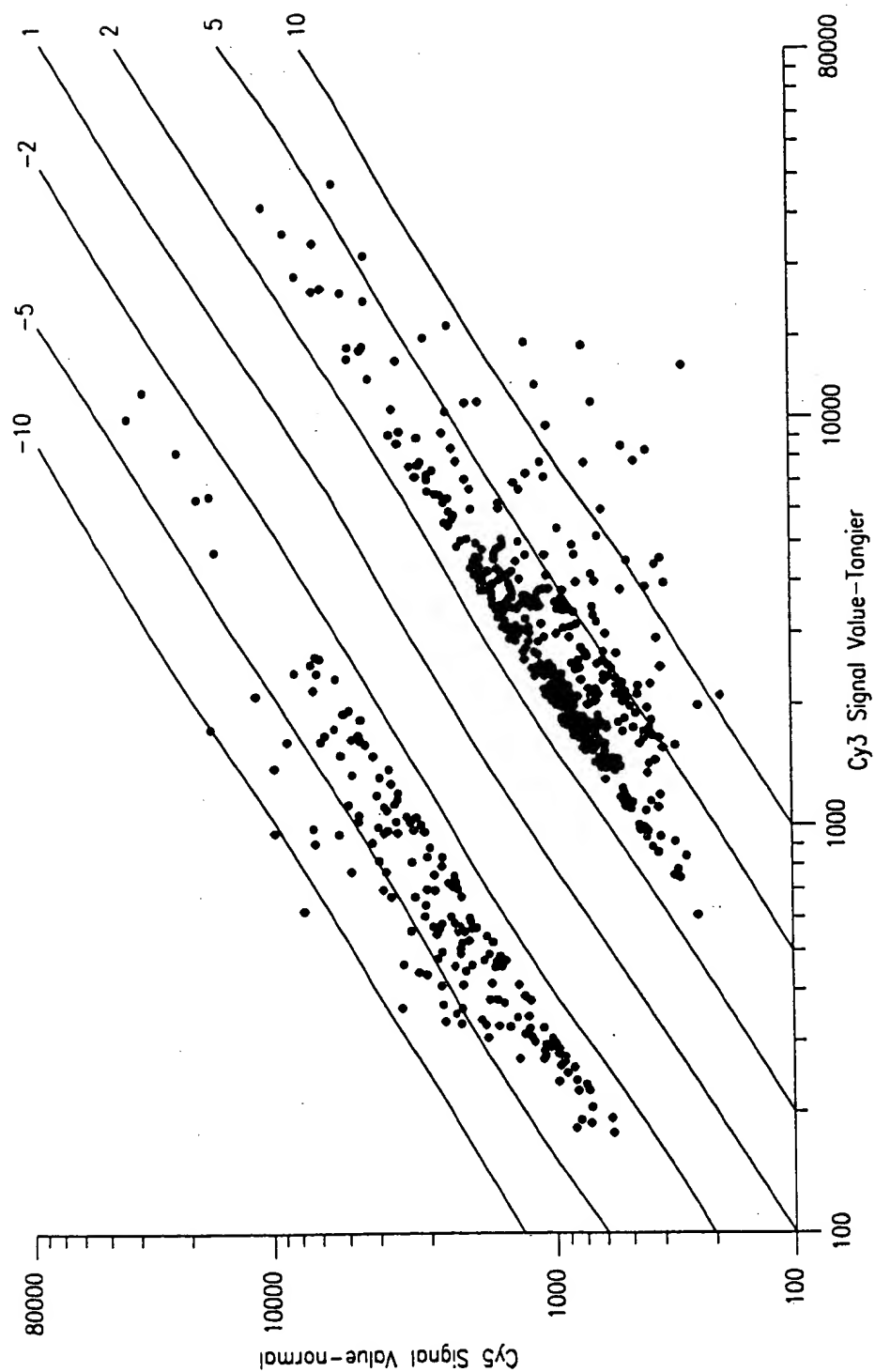
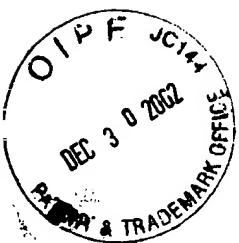


FIG. 2

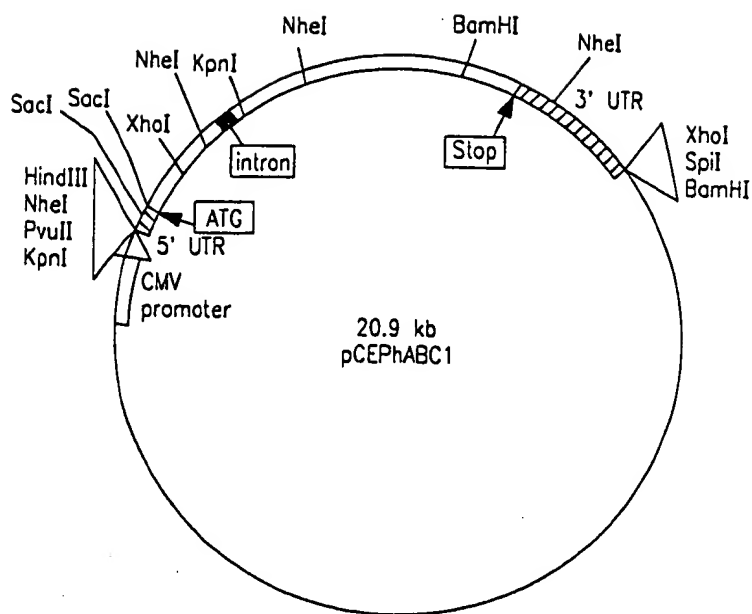


FIG. 3



CVT ABCA1 Gene Structure

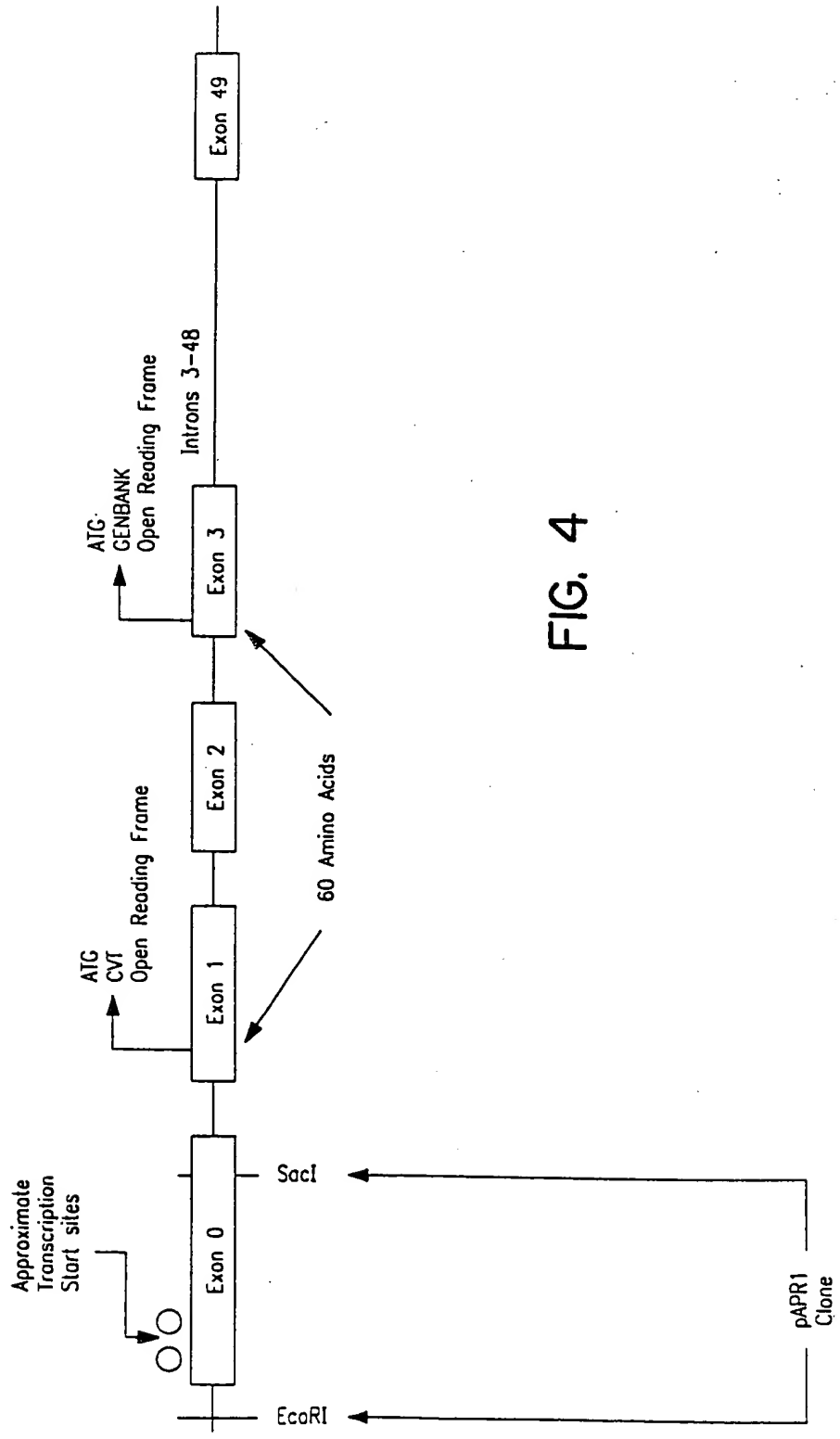


FIG. 4

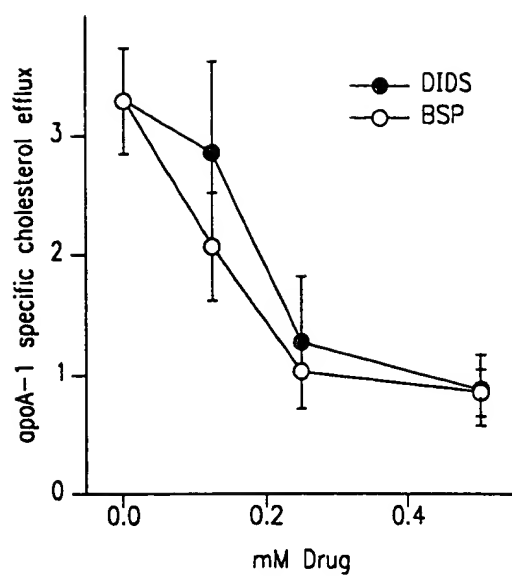


FIG. 5

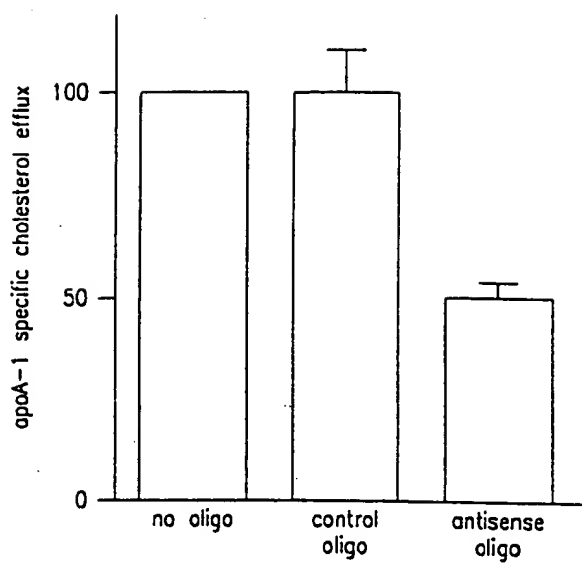


FIG. 6

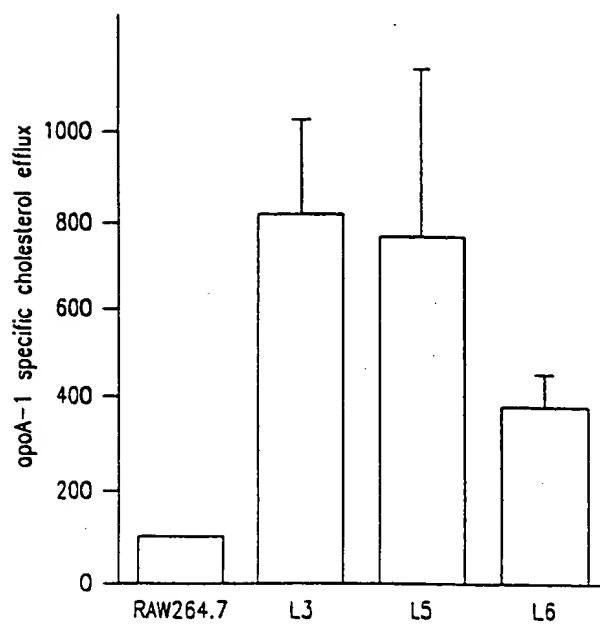


FIG. 7

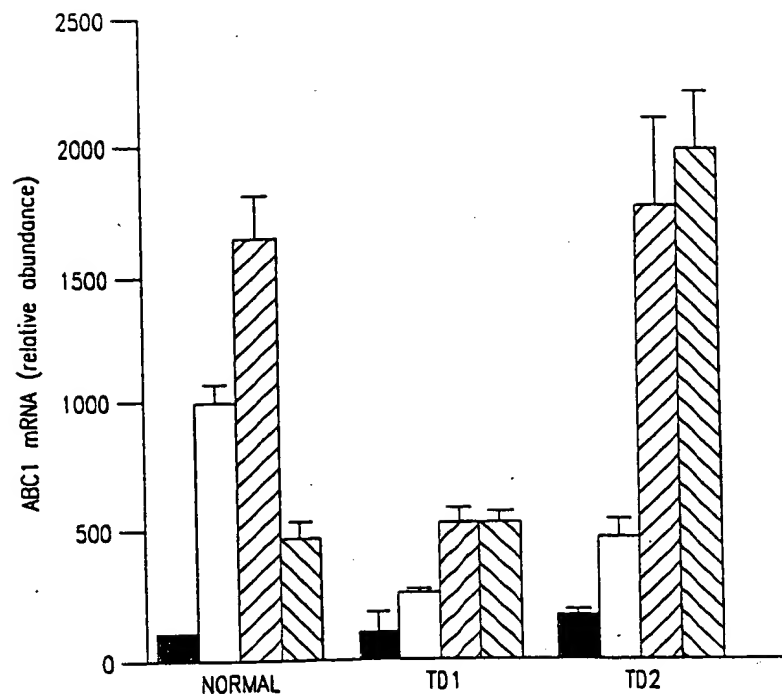


FIG. 8

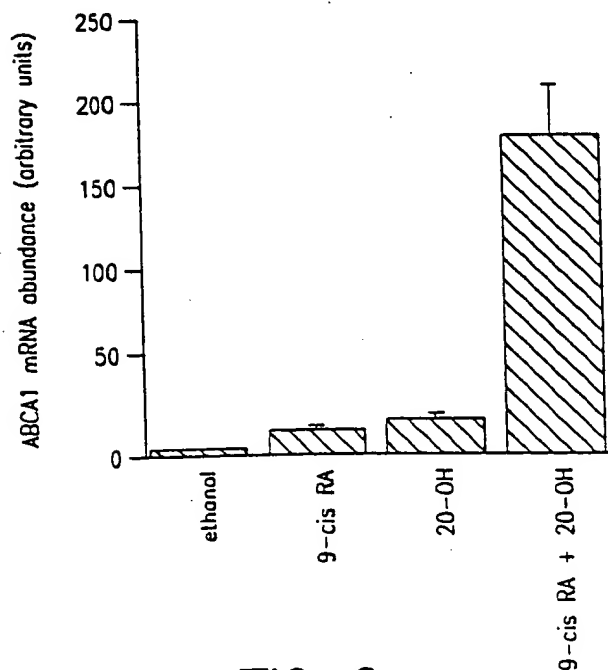


FIG. 9

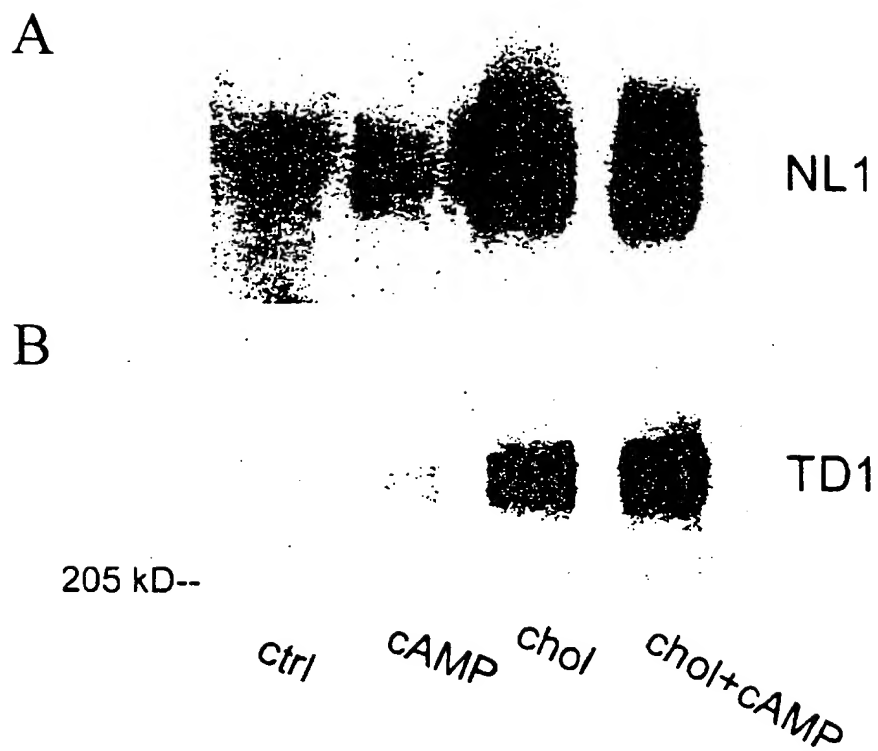
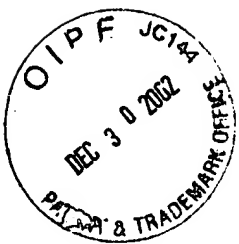


Fig. 10

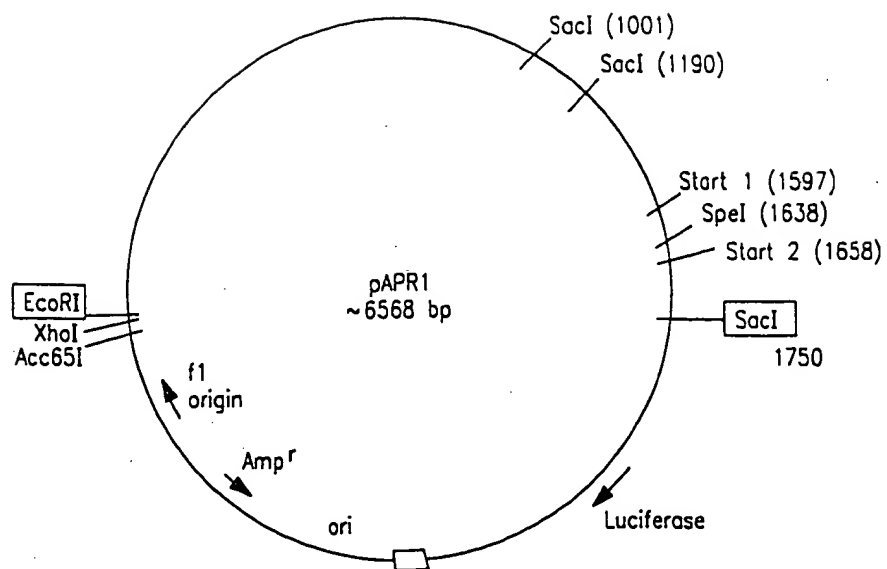


FIG. 11

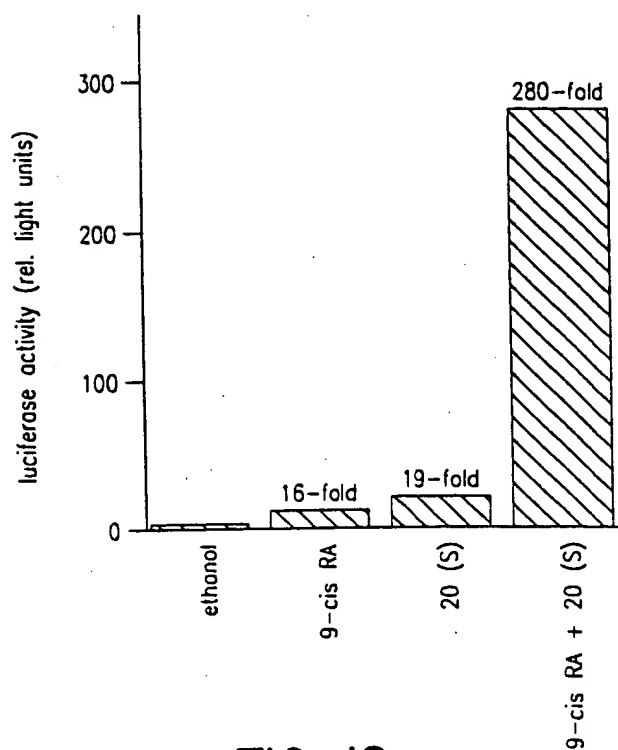
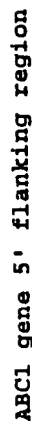


FIG. 12



ABCI gene 5' flanking region

1 GAA TTCCTTGCTGGTGCCACATGCACTTCCAGGGCCCTGGCTCTTCTATGGGTCTGTCCTGAGTGTGATAGAACCACTGATGTGAGTACCTGGG
101 GCTTGAGCGTGGCCCTGGAGATCCCTGTTGACTGTAGCATGGAGGGGGCTTGTGAGCTGNAATGTCGTATGCAAGTGGTGGAGTTCCTGGAATATGATGGAG
201 CTGGAGTGGGAAGAGTAGGCTTGGGCAGCTCTCTCATGCCACCTCAATCTGGCCAAAACCTCAGGTCAAACTGTGAAGAGTCTAAATGTGAATCTG
301 CCCCTCAAGGTGGCTACAAAGGTATCTTTGTCAAGGTAGGAGACCTTGTGGCCTCCACGTCACCTTCCAGGGCCCTGCTTGGCCCTCTTCTACGGGCTCTGTC
401 CTGAGTCTCTATGAATCTCCCTTCAGGGCAGATTCATATTTAGACTCTTTCACAGTTTTCACCTGAGTTTGGCCAGAAATAAGGTGACATTTAGTTTGTGTTG
501 GCTTGATGAATGACTTAATAATTTAGACATATGTTGTGAGGCTGCATTCCTACTCTCTTGCCCTTTTTTTTGGCCCCCTCCAGTGTTTTGGGTAGTTTGTGCT
601 CCCCCACAGCCAAAGGCAACAGATAAAGTTGGAGGCTCTGAGTGGCTACATAATTTTACACGACTGCAATTCCTCTGGCTGCACCTTCACAAAATGTATATA
701 AACTAAATACAAGTCTCTGTGTTTTTATCACGGGAGGCTGATCAATATAATGAAATTAANAAGGGGCTGGTCCCATATTGTTCTGTGTTTTTTGTTGTTGTT
801 GTTTCCTTTTTTTGTTGTCCTCTCTCCTCAATTTATGAAGAGAGCAGTAAGATGTTCTCTCGGGTCTCTGAGGGACCTGCGGGAGCTCAGGC
901 TGGGAATCTCCAAGGCAGTAGTGGCCTATCAAAATCAAAGTCCAGGTTTGTGGGGGAAAACAAAAGCAGCCCCATTACCCAGAGGACTGTCCGCCCTTC
1001 CCCTCACCCAGCCTAGGCCCTTGAAGGAAACAAAGACAAGCAAAAATGATTGGCGTCTTGAGGAGATTACGCCTAGAGCTCTCTCTCCCCCAATCC
1101 CTCCCTCCGGCTGAGGAAACTAACAAAGGAAAANAANAATTGGGNAAGCAGGATTTAGAGGAAGCAAAATCCACTGTGTGCCCTTGGCTGCCGGGAACGTC
1201 GACTAGAGAGTCTGCGGCGCAGCCCGAGCCGCGCTTCCCGCGCTCTTAGGCCGGCGGCCCGGGGGAGGGGAACGAGACCGCGGACCCCTAA
1301 GACACCTGCTGTAACCTCCACCCCAACCCCAACCCCTCCCTAGATGTTGTCGTGGCGGCTGAACGTGCCCCGTTTAAAGGGCGGGGGCCCC
1401 GGCTCCACGTGCTTCTGCTGAGTCACTGAACATACATAAAACAGAGCGCGGGAACGGGGCGGGGAGGAGACACAGGCTTTGACCCATAGTAACCTTC
1501 TGGGCTCGGTGACGCCGAATCTATAAAGGAACCTAGTCCCGGCAAAAACCCCGTAATTGCGAGCGAGAGTGAAGTGGGCGGGGACCCGCGAGAGCCGAGCC
1601 GACCCCTTCTCCCGGGCTGCGCAGGGCAGGGCGGGGAGCTC (SEQ ID NO. 3)

→ transcription start site

—TATA box

☐ nuclear hormone receptor half site

☐ LXR response element

~~www~~ SP1 site

FIG. 13